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## SEARCH REQUEST FORM

Scientific and Technical Information Center

**EIC 2600**

Requester's Full Name Doc V HA Examiner # 16772 Date 10/20/05  
Art Unit 2634 Phone Number 2-3040 Serial Number 681240521  
Office Location \_\_\_\_\_ Format preferred (circle) PAPER EMAIL BOTH

jeff 2 B S

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Let us know what you already have and so do not need. Include the keywords, synonyms and meaning of acronyms. Define all terms that may have a specific meaning. Please attach a copy of the background, abstract, claims and other pertinent information.

Please state how the terms or keyword strings should relate to one another.

Title of the Invention \_\_\_\_\_

Inventor(s)

US 5,600,672

Earliest Priority date to be used \_\_\_\_\_

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Date completed \_\_\_\_\_

Search Prep/review \_\_\_\_\_

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## Query/Command : prt max legalall

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1/1 PLUSPAT - ©QUESTEL-ORBIT - image

**PN** -  US5600672 A 19970204 [US5600672]  
**TI** - (A) Communication system  
**PA** - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)  
**PA0** - Matsushita Electric Industrial Company, Ltd., Osaka [JP]  
**IN** - (A) OSHIMA MITSUAKI (JP); SAKASHITA SEIJI (JP)  
**AP** - US24052194 19940510 [1994US-0240521]  
**FD** - C.I.P. of US857627 19920325 [1992US-0857627]  
**PR** - US24052194 19940510 [1994US-0240521]  
JP6279891 19910327 [1991JP-0062798]  
JP9581391 19910425 [1991JP-0095813]  
JP15565091 19910529 [1991JP-0155650]  
JP18223691 19910723 [1991JP-0182236]  
JP6073992 19920317 [1992JP-0060739]  
JP13298493 19930510 [1993JP-0132984]  
JP26161293 19930924 [1993JP-0261612]  
JP34997293 19931227 [1993JP-0349972]  
JP7966894 19940324 [1994JP-0079668]  
US85762792 19920325 [1992US-0857627]  
**IC** - (A) H04B-001/38 H04L-005/16  
**EC** - G11B-020/00P  
H04L-001/00B  
H04L-027/02  
H04L-027/04  
H04L-027/18M  
H04L-027/26M1  
H04L-027/26M1E  
H04L-027/34  
H04L-027/34M  
H04L-027/38N2  
H04N-005/44N  
H04N-007/24A  
H04N-007/24C14  
H04N-007/26E  
H04N-007/54  
**ICO** - S11B-023/28  
S11B-027/034  
S11B-027/10A1  
T04L-001/00B7C1  
**PCL** - ORIGINAL (O) : 375219000; CROSS-REFERENCE (X) : 375270000  
375301000 375321000  
**DT** - Basic  
**CT** - US5164963  
Shanmugam, "Digital and Analog Communication Systems" 1979, p. 272.  
**STG** - (A) United States patent

**AB** - At the transmitter side, carrier waves are modulated according to an input signal for producing relevant signal points in a signal space diagram. The input signal is divided into, two, first and second, data streams. The signal points are divided into signal point groups to which data of the first data stream are assigned. Also, data of the second data stream are assigned to the signal points of each signal point group. A difference in the transmission error rate between first and second data streams is developed by shifting the signal points to other positions in the space diagram expressed at least in the polar coordinate system. At the receiver side, the first and/or second data streams can be reconstructed from a received signal. In TV broadcast service, a TV signal is divided by a transmitter into low and high frequency band components which are designated as first and second data streams respectively. Upon receiving the TV signal, a receiver can reproduce only the low frequency band component or both the low and high frequency band components, depending on its capability. Furthermore, a communication system based on an OFDM system is utilized for data transmission of a plurality of subchannels, wherein the subchannels are differentiated by changing the length of a guard time slot or a carrier wave interval of a symbol transmission time slot, or changing the transmission electric power of the carrier.

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1/1 LGST - ©EPO

**PN** -  US5600672 A 19970204 [US5600672]

**AP** - US24052194 19940510 [1994US-0240521]

**ACT** - 19961010 US/AS02-A  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
OWNER: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, KAD;  
EFFECTIVE DATE: 19960910

19961010 US/AS02-A  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
OWNER: OSHIMA, MITSUAKI; EFFECTIVE DATE: 19960910

19961010 US/AS02-A  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
OWNER: SAKASHITA, SEIJI; EFFECTIVE DATE: 19960910

19990420 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 19990204

20001114 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20000915

20001128 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20001012

20001226 US/RF-A

REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20001005

20010102 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20001012

20010130 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20001012

20010213 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20000929

20010313 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20000925

20010403 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20000925

20010501 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20000929

20010522 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20001005

20010605 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20001005

20020611 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20020429

20020702 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20020429

20021008 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20000921

20040113 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20031027

20040203 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20031022

20040413 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20031024

20040504 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20020209

20040928 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20040223

20041109 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20040220

20041214 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20040707

20041214 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20040701

20050301 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20040604

20050308 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20040805

20050510 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20030807

20050628 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20050119

UP - 2005-27

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1 / 1 CRXX - ©CLAIMS/RRX

PN -  5,600,672 A 19970204 [US5600672]

PA - Matsushita Electric Industrial Co Ltd JP

ACT - 19990204 REISSUE REQUESTED

ISSUE DATE OF O.G.: 19990420  
REISSUE REQUEST NUMBER: 09/244037  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000915 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20001114  
REISSUE REQUEST NUMBER: 09/662695  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000919 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20001114  
REISSUE REQUEST NUMBER: 09/666012  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000921 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20001114  
REISSUE REQUEST NUMBER: 09/667438  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000921 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20010102  
REISSUE REQUEST NUMBER: 09/667525  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000921 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20021008

REISSUE REQUEST NUMBER: 09/667438  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000925 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20010313  
REISSUE REQUEST NUMBER: 09/668068  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000925 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20010403  
REISSUE REQUEST NUMBER: 09/669916  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000929 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20010213  
REISSUE REQUEST NUMBER: 09/672948  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000929 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20010501  
REISSUE REQUEST NUMBER: 09/672947  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20001005 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20001128  
REISSUE REQUEST NUMBER: 09/678014

## EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20001005 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20001226  
REISSUE REQUEST NUMBER: 09/677420  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20001005 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20001226  
REISSUE REQUEST NUMBER: 09/677421  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20001005 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20010522  
REISSUE REQUEST NUMBER: 09/680176  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20001005 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20010605  
REISSUE REQUEST NUMBER: 09/680177  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20001012 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20001128  
REISSUE REQUEST NUMBER: 09/686464  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20001012 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20001128  
REISSUE REQUEST NUMBER: 09/688028  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20001012 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20010102  
REISSUE REQUEST NUMBER: 09/686463  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20001012 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20010102  
REISSUE REQUEST NUMBER: 09/686466  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20001012 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20010102  
REISSUE REQUEST NUMBER: 09/686467  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20001012 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20010130  
REISSUE REQUEST NUMBER: 09/686465  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20020209 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20040504  
REISSUE REQUEST NUMBER: 10/773811  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20020429 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20020611  
REISSUE REQUEST NUMBER: 10/133364  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20020429 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20020702  
REISSUE REQUEST NUMBER: 10/133347  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20030807 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20050510  
REISSUE REQUEST NUMBER: 10/635468  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20031022 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20040203  
REISSUE REQUEST NUMBER: 10/690297  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20031024 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20040413  
REISSUE REQUEST NUMBER: 10/692469  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20031027 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20040113  
REISSUE REQUEST NUMBER: 10/693526  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20040220 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20041109  
REISSUE REQUEST NUMBER: 10/782411  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2631

Reissue Patent Number:

20040223 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20040928  
REISSUE REQUEST NUMBER: 10/783588  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2631

Reissue Patent Number:

20040604 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20050301  
REISSUE REQUEST NUMBER: 10/860666  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20040701 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20041214  
REISSUE REQUEST NUMBER: 2614  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS:

Reissue Patent Number:

20040707 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20041214  
REISSUE REQUEST NUMBER: 10/885572  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20040805 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20050308  
REISSUE REQUEST NUMBER: 10/911680  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20050119 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20050628  
REISSUE REQUEST NUMBER: 11/038006  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

Search statement 2

5600672

February 4, 1997

Communication system

**LEXIS-NEXIS**  
**Library: PATENTS**  
**File: ALL**

REISSUE: Reissue Application filed Oct. 5, 2000 (O.G. Jun. 5, 2001) Ex. Gp.: 2614; Re. S.N. 09/680,177Reissue Application filed Oct. 5, 2000 (O.G. May 22, 2001) Ex. Gp.: 2614; Re. S.N. 09/680, 176Reissue Application filed Sep. 29, 2000 (O.G. May 1, 2001) Ex. Gp.: 2614; Re. S.N. 09/672,947Reissue Application filed Sep. 25, 2000 (O.G. Apr. 3, 2001) Ex. Gp.: 2614; Re. S. N. 09/669,916Reissue Application filed Sep. 25, 2000 (O.G. Mar. 13, 2001) Ex. Gp.: 2614; Re. S.N. 09/668, 068Reissue Application filed Sep. 29, 2000 (O.G. Feb. 13, 2001) Ex. Gp.: 2614; Re. S.N. 09/672,948Reissue Application filed Oct. 12, 2000 (O.G. Jan. 30, 2001) Ex. Gp.: 2614; Re. S.N. 09/686,465Reissue Application Filed Oct. 12, 2000 (O.G. Jan. 2, 2001) Ex. Gp.: 2614; Re. S. N. 09/686, 467Reissue Application Filed Oct. 12, 2000 (O.G. Jan. 2, 2001) Ex. Gp.: 2614; Re. S.N. 09/686,466Reissue Application Filed Oct. 12, 2000 (O.G. Jan. 2, 2001) Ex. Gp.: 2614; Re. S.N. 09/686,463Reissue Application Filed Sep. 21, 2000 (O.G. Jan. 2, 2001) Ex. Gp.: 2614; Re. S.N. 09/667, 525Reissue Application filed Oct. 5, 2000 (O.G. Dec. 26, 2000) Ex. Gp.: 2614; Re. S.N. 09/677,420Reissue Application filed Oct. 12, 2000 (O.G. Nov. 28, 2000) Ex., (O.G. June 5, 2001) April 29, 2002 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 10/133,364 (O.G. June 11, 2002) April 29, 2002 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 10/133,347 (O.G. July 2, 2002) September 21, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/667,438 (O.G. October 8, 2002) October 27, 2003 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 10/693,526 (O.G. January 13, 2004) October 22, 2003 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 10/690,297 (O.G. February 3, 2004)

5,600,672 OR 5600672

**LEXIS-NEXIS**  
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5,600,672 OR '5600672

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5,600,672 OR 5600672

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Patent Search - Number: 5600672

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